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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,018	02/26/2004	Russell Norman Owen	13210-24	3539
1059 7590 10/02/2007 BERESKIN AND PARR 40 KING STREET WEST BOX 401 TORONTO, ON M5H 3Y2 CANADA			EXAMINER RECEK, JASON D	
			ART UNIT 2109	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/786,018

Applicant(s)

OWEN ET AL.

Examiner

Jason Recek

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date See Continuation Sheet.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :5 December 2005; 9 September 2005; 19 July 2004.

## **DETAILED ACTION**

This is in response to application 10/786018 filed on February 26<sup>th</sup> 2004 in which claims 1-17 are presented for examination.

### ***Status of Claims***

Claims 1-17 are pending of which claims 1, 15 and 17 are in independent form.

Claims 1-10 and 13-17 are currently rejected under 35 U.S.C. 102(e).

Claims 11-12 are currently rejected under 35 U.S.C. 103(a).

### ***Information Disclosure Statement***

1. The information disclosure statement filed July 19<sup>th</sup> 2004 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because the document numbers listed (2004/030740 and 2003/055868) correspond to no such documents (perhaps the applicant intended the numbers to be 2004/0030740 and 2003/0055868). It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement,

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including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-10 and 13-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Stelting US 2004/0030740 A1.

Regarding claim 1, Stelting discloses “receiving at least one web service description” as looking up available services or automatically detecting web services (paragraph 35), “processing said at least one web service description to identify a first web service” as choosing a web service (paragraph 35), “wherein each input to said first web service is obtainable by invoking a second web service” as ordering the services (paragraph 36) which provides a calling structure based on the services’ input/output rules (paragraph 13), “generating a user interface” as initiating a user interface (paragraph 34) for “invoking one or more second web services” as selecting multiple

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services (paragraph 36), and “obtain output data from said one or more second web services; and invoking said first web service, using output data from said second web service” as combining web services to use the results from a first service in the second service, this is most easily seen as a linear series of service invocations (paragraph 29, 36 Fig. 5).

Regarding claim 2, Stelting discloses “display output data from said first web service to at least one user” as a graphical user interface that displays the output values for a web service (paragraph 37).

Regarding claim 3, Stelting discloses “generating code for said user interface” as producing code (paragraph 31), and “storing said code in a storage device” as memory for storing created services (paragraph 30, Fig. 1 item 153).

Regarding claim 4, Stelting discloses “transmitting said code from said storage device to said computing device” as sending code over the network to servers and clients (paragraph 33).

Regarding claim 5, Stelting discloses “executing said code on said computing device” as running the service (paragraph 31).

Regarding claim 6, Stelting discloses "prompt at least one user for input data and receive said input data from said at least one user" as getting input from a user (paragraph 38).

Regarding claim 7, Stelting discloses "said input data is used to invoke at least one second web service in performing substep i" as using the input data to call a web service (paragraph 38).

Regarding claim 8, Stelting discloses "steps b) and c) are repeated for a plurality of first web services" as ordering multiple services (a chain of services) to act as the output/input for another service (paragraph 36, See claim 1 rejection).

Regarding claim 9, Stelting discloses "web service description elements contain names associated with said one or more second web services and names associated with inputs to said first web service that adhere to a predetermined naming convention" as providing a list of names of services and their inputs/outputs (Fig. 4, paragraph 13), and "said naming convention permits a determination of whether an input to said first web service is obtainable by invoking a specified second web service" as allowing the user to efficiently combine services (paragraph 11), by providing input and output type information (Fig. 6).

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Regarding claim 10, Stelting discloses "generating one or more second user interfaces through which input data is obtainable from at least one user and output data is displayable" as obtaining input data from and displaying output data to a client of the web services (paragraph 37), this interaction would necessarily take place through an interface, "invoking at least a subset of said plurality of web services using input data obtained from said at least one user through said one or more second user interfaces" as using the data to run the web service (paragraph 37), "displaying output data through said one or more second user interfaces from said at least a subset of said plurality of web services" as showing the output to a client of the web service (paragraph 37), and "identifying said first and second web services, from input data obtained from said at least one user and output data displayed to said at least one user through said one or more second user interfaces" as an ordering service (Fig. 8) would necessarily need information to identify clients/services (paragraph 43).

Regarding claim 13, Stelting discloses "generating one or more second user interfaces" as generating a second interface (paragraph 43), "for permitting at least one user to identify said first and second web services by displaying names of at least a subset of said plurality of web services in said one or more second user interfaces, and receiving input data from said at least one user indicating which second web services of said at least a subset of said plurality of web services has been associated with said first web service" as displaying the names of web services to a user (Fig. 4) and taking



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input from the user that indicates which services are associated with each other (paragraph 36).

Regarding claim 14, Stelting discloses "user interfaces are menu-driven" as a menu driven interface (paragraph 36, Fig. 4).

Regarding claim 15, it is an apparatus claim that corresponds to claim 1 and is therefore rejected for the same reasons since Stelting discloses apparatus that perform the method of claim 1 (Fig. 1).

Regarding claim 16, Stelting discloses "a mobile device" as wireless clients (paragraph 23).

Regarding claim 17, it is a computer medium claim that corresponds to claim 1 and is therefore rejected for the same reasons since Stelting discloses computer medium to perform the method of claim 1 (Fig. 1).

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stelting.

Regarding claims 11-12, Stelting discloses "web services are identified" as naming web services (paragraph 29). Stelting does not disclose "web services are identified by monitoring instances" where the input data matches the output data or the input data was copied from the output data, however it would have been obvious to one of ordinary skill in the art at the time of the invention to do so for the purpose of identification. The technique of identifying a user by having the user copy data that was displayed to them and have the user return that data as an input is well known and yields predictable results.

### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Roberts et al. U.S. Pat. 6,560,633 B1 discloses generating user interfaces from web services.

Fletcher et al. US 2006/0036682 A1 discloses aggregating web services.

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Henderson et al. US 2005/0038867 A1 discloses dynamically interacting web services.

Arellano et al. US 2004/0148334 A1 discloses dynamically aggregating web services.

Meredith et al. US 2004/0064529 A1 discloses joining compatible web services.

Kamen et al. US 2004/0003033 A1 discloses a web service interface.

Baier et al. U.S. Pat. 7,151,966 B1 discloses aggregation of web services.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Recek whose telephone number is (571) 270-1975. The examiner can normally be reached on Mon - Thurs 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frantz Coby can be reached on (571) 272-4017. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Jason Recek  
9/25/07



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SUPERVISORY PATENT EXAMINER